

Title (en)
CLEANING IMPLEMENT WITH MIST GENERATING SYSTEM

Title (de)
REINIGUNGSEINSATZ MIT NEBELERZEUGUNGSSYSTEM

Title (fr)
OUTIL DE NETTOYAGE AVEC SYSTÈME DE GÉNÉRATION DE BUÉE

Publication
EP 2491841 A2 20120829 (EN)

Application
EP 11195199 A 20111222

Priority
US 201061427979 P 20101229

Abstract (en)
A mist generating system for a cleaning implement is adapted to generate a finely atomized liquid mist for suppressing dust, allergens, and other airborne particulates. The mist generating system can be adapted to fit many cleaning implements such as vacuum cleaners, wet extraction cleaners, floor mops, and dusters to suppress airborne dust and particulates generated during operation and the cleaning process.

IPC 8 full level
A47L 1/09 (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP US)
A47L 1/09 (2013.01 - EP US); **A47L 7/0004** (2013.01 - US); **A47L 11/4086** (2013.01 - EP US); **A47L 11/4088** (2013.01 - EP US); **A47L 13/38** (2013.01 - US)

Citation (applicant)

- US 6376542 B1 20020423 - HANSEN ERIC J [US], et al
- US 4085893 A 19780425 - DURLEY III BENTON A
- US 7811349 B2 20101012 - NGUYEN TOM MINH [US]
- US 6131237 A 20001017 - KASPER GARY A [US], et al
- US 3778860 A 19731218 - THIELEN J
- US 6484346 B2 20021126 - KINGRY GARY WILLIAM [US], et al
- US 3099855 A 19630806 - NASH LAWRENCE M
- US 7013528 B2 20060321 - PARKER TIMOTHY S [US], et al
- US 6047435 A 20000411 - SUZUKI YUICHI [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2012168971 A1 20120705; US 9033316 B2 20150519; AU 2011265435 A1 20120719; AU 2011265435 B2 20140424;
CN 102551596 A 20120711; CN 102551596 B 20160824; EP 2491841 A2 20120829; EP 2491841 A3 20131225; EP 2491841 B1 20180627;
ES 2688981 T3 20181107; PL 2491841 T3 20181130; US 10653284 B2 20200519; US 11179017 B2 20211123; US 2015223660 A1 20150813;
US 2018125322 A1 20180510; US 2020268227 A1 20200827; US 2022031140 A1 20220203; US 9888821 B2 20180213

DOCDB simple family (application)
US 201113334841 A 20111222; AU 2011265435 A 20111221; CN 201110452782 A 20111229; EP 11195199 A 20111222;
ES 11195199 T 20111222; PL 11195199 T 20111222; US 201514631352 A 20150225; US 201815864375 A 20180108;
US 202015930026 A 20200512; US 202117505074 A 20211019